



Elgin Area
Primary Water Supply System

2025 Compliance Report



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Profile

Who We Are

The Elgin Area Primary Water Supply System (EAPWSS) is owned by a Board of Management who governs the drinking water system. The Board of Management is made up of members appointed from each of the eight (8) member municipalities that are currently supplied with water from the EAPWSS. The City of London acts as the Administering Municipality. Accordingly, the City of London provides all associated administrative and management services on behalf of the Board. The Board of Management currently contracts the operation and maintenance of the EAPWSS to the Ontario Clean Water Agency (OCWA), an independent Operating Authority.

Operating Authority:



EAPWSS Board Member Municipalities:

- City of London (Administering Municipality)
- Town of Aylmer
- Municipality of Bayham
- Municipality of Central Elgin
- Municipality of Dutton Dunwich
- Township of Malahide
- City of St. Thomas
- Township of Southwold

What Is Important

Values of the Water System

The values of the EAPWSS are the inherent beliefs or moral standards that generally reflect what the EAPWSS Board of Management stands for and believes in:

- **Sustainable** - be financially, environmentally, socially, and physically sustainable;
- **Inclusive** - provide access to bulk drinking water for current and prospective members, in accordance with Board policy;
- **Fair and equitable** - balance the interests of individual members with the best interests of all members, as well as the needs of existing members with the needs of new members;
- **Vigilant** - ensure an adequate supply of safe and reasonably priced drinking water is available to members;
- **Innovative** - be receptive to and supportive of new ideas and opportunities for improvement;
- **Cooperative** – be supportive to the needs of the Elgin Area Primary Water Supply System;
- **Open and transparent** – conduct business in a manner that enables member municipalities and the public to review and provide input into major decisions as appropriate;
- **Public Ownership** – retain ownership of the water system in public hands.

What We Do

Water Treatment & Supply

The EAPWSS is responsible for the treatment and transmission of drinking water to eight (8) member municipalities in southwestern Ontario. The population served by this system is approximately 150,000 (as per the 2025 Water Master Plan). Water is provided bulk wholesale to the member municipalities who then distribute it to their customers.

The Elgin Area Water Treatment Plant (WTP) was constructed in the late 1960's and officially began operating in 1972. The WTP employs pre-chlorination, screening, powder activated carbon addition (seasonally on an as-required basis), coagulation, flocculation, sedimentation, dual-media filtration, ultra-violet (UV) disinfection, post-chlorination, fluoridation and pH adjustment using both carbon dioxide and sodium hydroxide to treat raw water obtained from Lake Erie. After the water is treated it is pumped from the WTP to the member municipalities or to the terminal storage reservoir. The drinking water system is monitored at various locations via a Supervisory Control and Data Acquisition (SCADA) system.

The EAPWSS is operated under the Municipal Drinking Water Licence (MDWL) #048-101 and Drinking Water Works Permit (DWWP) #048-201.

EAPWSS Assets:

- 1 low lift pumping station
- 1 water treatment plant
- 1 residuals management facility
- 2 surge facilities
- 1 terminal storage reservoir site (consisting of 2 cells)
- 14.7 km primary transmission pipeline (2 pipelines, 1 temporarily decommissioned)



Figure 1: Low Lift Pumping Station located on Lake Erie

EAPWSS: At A Glance

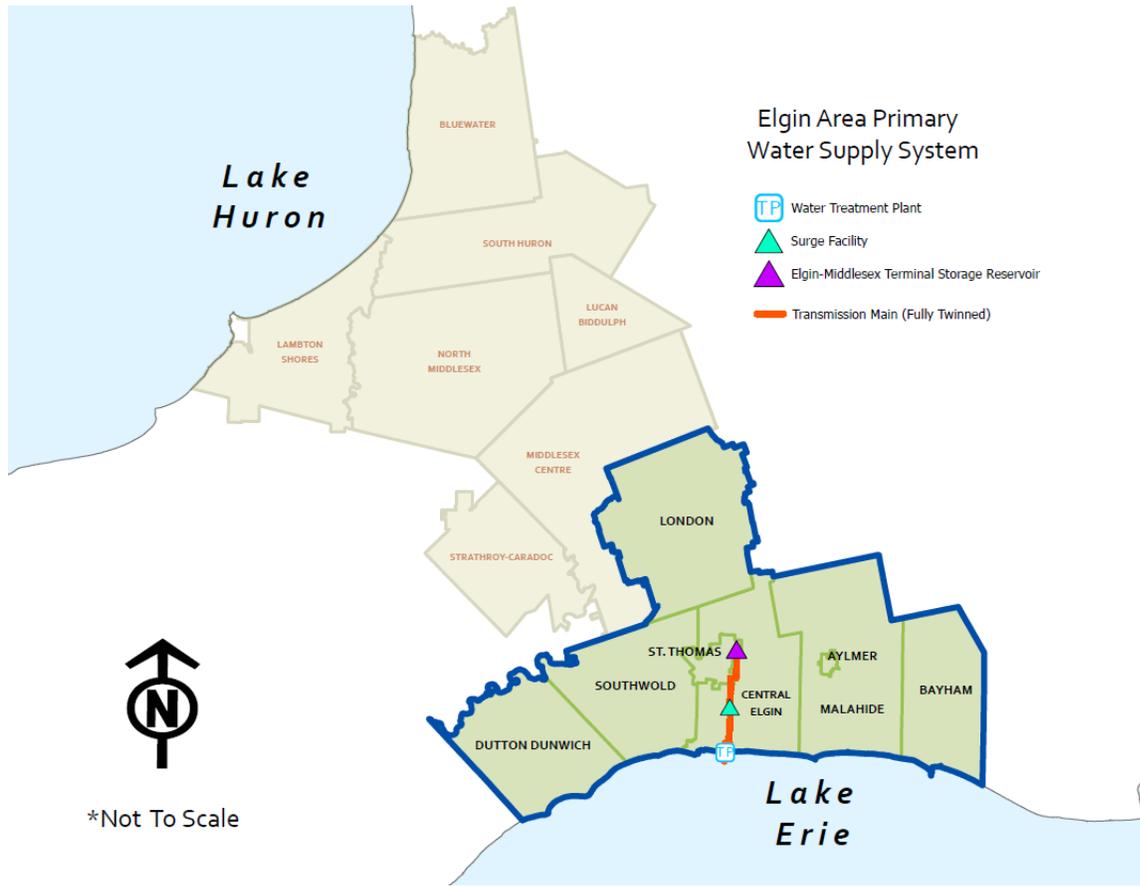


Figure 2: EAPWSS Major Infrastructure Locations

The Water Treatment Process

The following figure provides a general overview of the conventional water treatment process. The processes outlined below are very similar to the treatment at the Elgin Area WTP, although they are not an exact representation. Some details may vary.

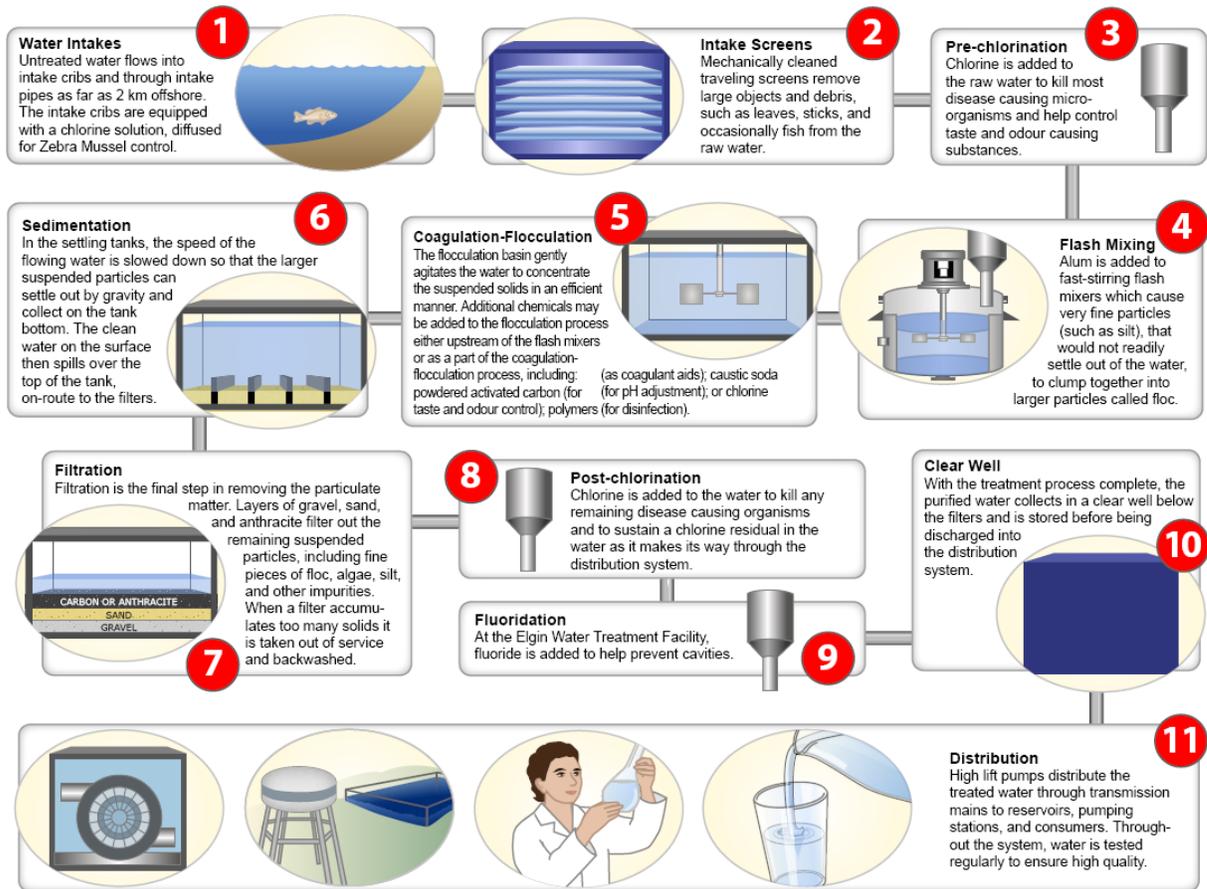


Figure 3: General Overview of the Water Treatment Process

At the Elgin Area WTP, several additional treatment steps take place:

- Carbon dioxide is injected prior to flash mixing (Step 4) to lower the raw water pH to improve the treatment process effectiveness and efficiency.
- A UV reactor is located after each filter (Step 7) for additional disinfection when required.
- Sodium Hydroxide is added as the treated water leaves the WTP and enters the transmission system (Step 11) to raise the treated water pH, resulting in reduced corrosion potential.

2025 Highlights - General

Quality Management System Re-accreditation

The continued utilization and accreditation of a Quality Management System (QMS) is a provincial regulatory requirement under the Safe Drinking Water Act and the Municipal Drinking Water Licence Program. The licence framework requires drinking water system owners to obtain a Municipal Drinking Water Licence (MDWL) to operate their drinking water system. In order to obtain a MDWL, a drinking water system must have an accredited operating authority. To become accredited the operating authority must establish and maintain a QMS that meets the minimum requirements of the province's Drinking Water Quality Management Standard (DWQMS). Operating authorities are accredited by a third-party accreditation body against the requirements of the DWQMS. Reaccreditation audits take place every three (3) years. OCWA successfully received DWQMS re-accreditation for the EAPWSS in October 2025 and is accredited for another three-year term ending in 2028. The system's QMS is recognized by the accreditation body as being mature, and outstanding or benchmark in some areas.

Master Plan

The EAPWSS is required to undertake a Master Plan every five (5) years. In 2024 the EAPWSS, through its consultant AECOM Canada ULC (AECOM), initiated a Master Plan, in accordance with the Municipal Engineers Association Class Environmental Assessment, to assess regional water system needs for the utility over the next 20+ years. The Master Plan is intended to evaluate and identify recommended system improvements, including major system upgrades and expansion, to accommodate proposed growth. Public and agency consultation, and Indigenous engagement are important aspects of the Master Plan. An outcome of the Master Plan is a roadmap outlining major system improvements over the next twenty years.

The Master Plan update was completed in fall of 2025 and endorsed at the October 2, 2025 Board meeting. The Elgin Area WTP was determined to have insufficient capacity over the planning horizon, based on the water demand projections determined in the Master Plan. The preferred solution was identified as the upgrade and expansion of the existing system to meet the increased water demand. Key improvements were identified, as well as several studies to support the improvements and to maintain sustainable utility management.

2025 Capital Project Highlights

Ultraviolet (UV) System Replacement and Backwash Pump Upgrade

The existing UV disinfection system at the Elgin Area WTP is at the end of its life and requires replacement. The existing UV system is considered “first-generation” technology which poses various operational challenges, including equipment servicing and obtaining replacement parts. The existing system is energy inefficient in comparison to current UV systems now available.

A study was completed in 2020 to evaluate alternatives for renewal or replacement of the existing UV system. In 2022, AECOM Canada Ltd. was awarded the consulting engineering services for the detailed design of the UV upgrade. The detailed design was completed in 2025 and has been coordinated with the backwash pump upgrade.

The existing filter backwash system is original to the Elgin Area WTP and is over fifty years old. Two backwash pumps are utilized for each filter backwash in order to satisfy the full flow and volume range necessary to adequately clean the filters. There are no backup or standby pumps for the backwash system should one of the existing pumps fail or be taken out of service for maintenance, making this pump replacement project a priority.

Due to long lead times required to fabricate and deliver equipment, both the new UV system and backwash pumps were previously pre-purchased and were delivered to the site in 2024. In February 2025, AECOM completed the detailed design of the UV system. The project was tendered in spring 2025 and was awarded to Stone Town Construction. Stone Town mobilized to site in July 2025, and construction is anticipated to continue through September 2026.

Backwash pump upgrade work completed in 2025 and early 2026 included:

- Backwash pump (BWP) #2 replacement was completed, with start-up and commissioning in December 2025. Final run tests were completed in January 2026.
- A structural inspection of BWP #1 pump well was completed by AECOM while it was out of service.
- BWP #1 replacement was completed with the new pump being placed into service in March 2026.



Figure 4: Newly commissioned BWP #2 (right). Original BWP #1 (left) prior to removal.

UV project work completed in 2025 and early 2026 included:

- In August 2025 the contractor excavated and exposed the clearwell and reservoir walls, replacing the subdrain.
- The contractor continued to excavate at the back of the Filter Building, installed a sump pit for dewatering, and installed concrete mud slabs.
- In September 2025 the concrete and rebar work was ongoing, with installation of the sump pit and base slab for the new UV building addition, and base slab for the new chamber.
- In October 2025 a subcontractor was onsite to install the 1050mm hot tap flange on the reservoir wall and perform a pressure test.
- From October to December 2025 the walls of the addition were formed in stages and multiple concrete pours.
- The roof slab of the addition was poured in February 2026 and the contractor is closing in the addition, with falsework to be removed in April 2026.
- On March 5, 2026 Pacific Flow Control was onsite to perform the live tap of the reservoir, in order to accommodate a new piping connection into the reservoir.



Figure 5a: Exposed clearwell and reservoir walls; Forming the base for a new chamber to be installed adjacent to the reservoir.

Figure 5b: Forming of the new UV Building addition, adjacent to the existing Filter Building.



Figure 6: Live tap of the WTP reservoir, performed on March 5, 2026.

Server Room Fire Suppression System

Given the increasing criticality of the server room to the overall operation and regulatory compliance of the system, the system's insurers strongly recommended the implementation of a fire detection and suppression system for this critical area. In 2025 the new fire suppression system was installed in the server room and provides enhanced fire protection. This specialized waterless fire extinguishing system is designed to protect sensitive electronic equipment without damaging it.



Figure 7: New fire suppression system installed in the server room.

Powder Activated Carbon (PAC) Dosing Strategy Optimization

The PAC dosing system is not currently optimized for the existing raw water quality conditions, which limits its ability to proactively address taste and odour issues caused by variable Lake Erie water quality. In 2025, a PAC dosing study was undertaken to review the current strategy and provided recommendations for improvement. The study included bench-scale jar testing to assess the adsorption capacity of PAC for several common taste and odour compounds found in Lake Erie water. The findings of this study provide actionable insights for improving water quality outcomes at the Elgin Area WTP. By refining PAC dosing strategies and adopting enhanced sensory protocols, the WTP can better manage seasonal and event-driven fluctuations in taste and odour compounds and microcystins, supporting regulatory compliance and customer satisfaction.

Low Lift Instrument Panel Replacement

The instrumentation panels in the low lift building had reached the end of their useful life. The panels were replaced in accordance with current standards and best practices. The project was completed in July 2025.



Figure 8: New instrumentation panel in the Low Lift Pumping Station.

Low Lift Discharge Valve Replacements

This project was required to replace the discharge valves on the low lift pumps, as they were showing signs of failure and were at the end of their useful life. Continued degradation and significant leaking would result in their eventual failure and would render the low lift pumps inoperable. In 2025 the low lift discharge valves were replaced and are in full operation.



Figure 9a & 9b: Two low lift discharge valves, one small and one large valve.

St. Thomas South Edgeware Booster Station (SEBS) Connection

In 2025, modifications were made at the Elgin Terminal Reservoir site to supply water to the new City of St. Thomas South Edgeware Booster Station (SEBS). The existing 1050mm supply line from the Elgin Terminal Reservoir to the original St. Thomas Pumping Station on the property was modified to add a new connection (i.e. valve chamber) to supply water to the SEBS. The SEBS will eventually supply water to the new Yarmouth Yards Industrial Park development in St. Thomas.



Figure 10: New valve chamber constructed at the Elgin Terminal Reservoir site, on the existing 1050mm suction header watermain. A new 1050/1200mm intake header pipe connection to the new SEBS.

2025 Flow Summary

The EAPWSS Permit to Take Water (PTTW) identifies the amount of raw water taken into the EAPWSS cannot exceed 91.0 million litres/day. This converts to 1,053 litres/second.

The water taking in 2025 was approved under PTTW #P-300-4168104920.

As per the water system's Municipal Drinking Water Licence (MDWL), the rated capacity of the WTP is 91.0 million litres/day. The maximum daily flow of treated water from the treatment plant into the distribution system shall not exceed this value.

The following table contains a flow summary, with a comparison to the system's rated capacity and permit limits in order to assess the capability of the system to meet existing and planned uses.

	Total Daily Flow (ML/day)	Total Daily Flow (% of Capacity)	Daily Instantaneous Peak Flow (L/s)
PTTW – permitted amount of raw water taking	91.0	100.0	1,053
Raw Water Flow – Average Day	48.1	52.9	870
Raw Water Flow – Max. Day	72.3	79.5	1,045
WTP Rated Capacity (MDWL)	91.0	100.0	1,053
Treated Water Flow – Average Day	47.4	52.1	816
Treated Water Flow – Max. Day	71.4	78.5	952

A complete flow summary for the EAPWSS can be found in Appendix A.

Treated Water Flows

The average daily flow from the EAPWSS was 47.4 ML/day, which is a 5.1% increase from the previous year. The maximum daily flow for 2025 was 71.4 ML/day, which is a 9.3% increase from the previous year.

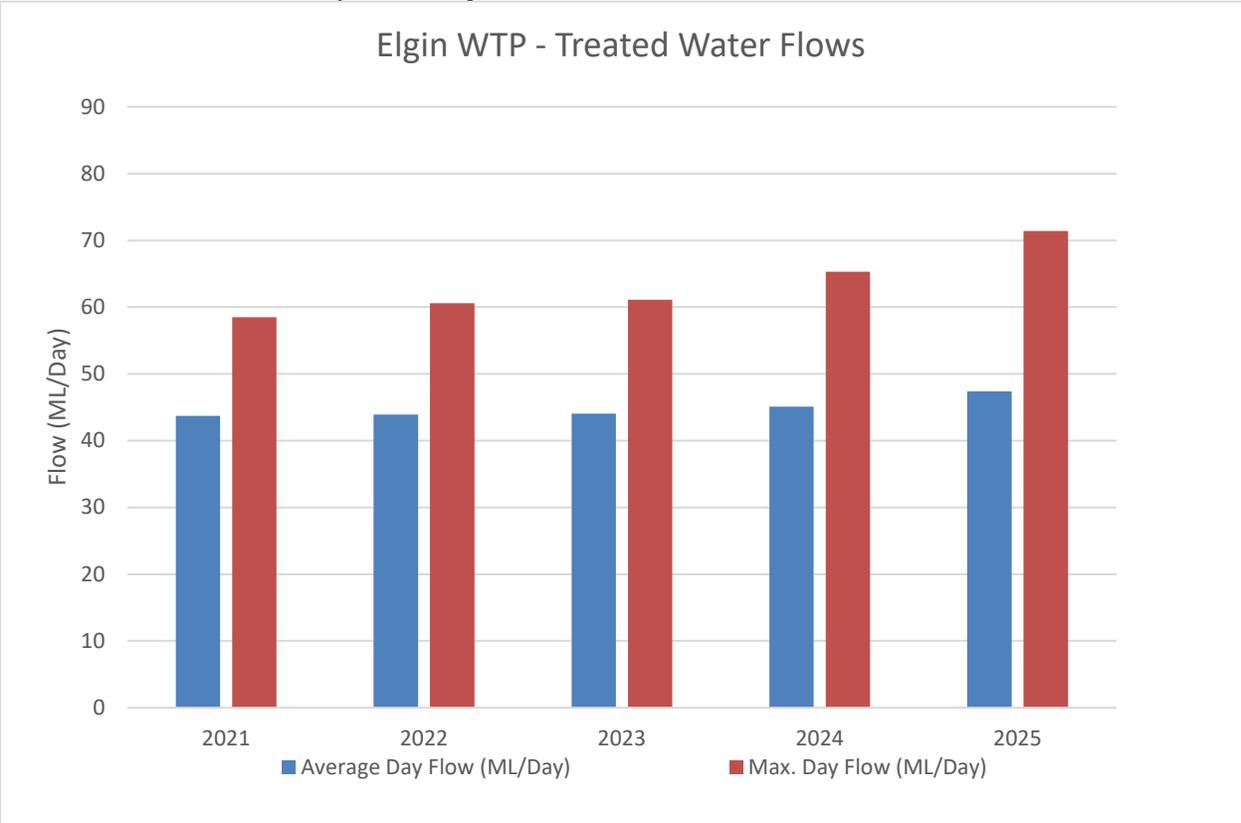


Figure 11: Five (5) Year Treated Water Flow Comparison

The City of London utilizes the largest volume of treated drinking water from the EAPWSS. As shown in Figure 12, the City of London utilizes 49.74% of the volume; the City of St. Thomas utilizes 29.87%, and the other six municipalities utilize the remaining 20.39% of the volume.

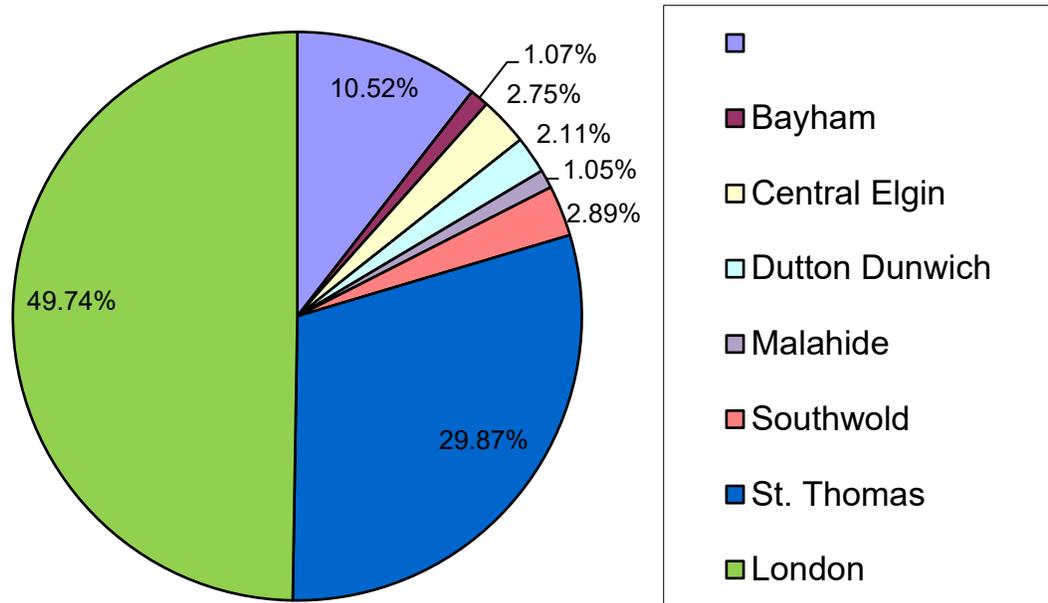


Figure 12: 2025 Treated Water Volumes per Municipality

2025 Chemical Consumption

A variety of water treatment chemicals are used at the EAPWSS to ensure safe, potable drinking water. The following table outlines the chemicals most frequently used for the EAPWSS. As part of the system's registered ISO14001 Environmental Management System, objectives and targets are currently in place to optimize chemical usage.

Chemical	Purpose	Total amount used in 2025
Aluminum Sulphate	Coagulant	577,711 kg
Polymer	Coagulant aid	72.8 kg
Powdered Activated Carbon	Taste and odour control (seasonally)	33,279 kg
Chlorine Gas	Primary disinfection	18,862 kg
Chlorine Gas	Pre-Chlorination	13,296 kg
Chlorine Gas	Mussel control at the intake crib	9,396 kg
Fluoride	Prevention of dental cavities	10,304 kg
Carbon Dioxide	pH adjustment - injected at the start of the treatment process to lower the raw water pH for improved treatment effectiveness and efficiency	383,671 kg
Sodium Hydroxide	pH adjustment – injected at the end of the treatment process to raise the treated water pH for reduced corrosion potential	437,215 L
Sodium Bisulphite	Residuals Management Facility Dechlorination	7,798 kg
Polymer	Residuals Management Facility Centrifuge	1,781 kg
Polymer	Residuals Management Facility Thickener	522 kg

2025 Water Quality Sampling and Monitoring

The EAPWSS consistently provides treated drinking water with water quality above the standards required by provincial regulations. Where applicable, this is a result of the EAPWSS standards being more stringent than what is required by provincial regulation. For example, the target at the EAPWSS for filtered water turbidity (a measure of the cloudiness of water) is ten times more stringent than the provincial standard. The EAPWSS is utilizing best management practices and continual improvement to ensure that high drinking water standards are maintained and enhanced where possible.

All water quality sampling at the EAPWSS is performed in accordance with the Safe Drinking Water Act and its associated regulations. All samples are collected by licensed operating authority personnel and are submitted to Canadian Association for Laboratory Accreditation (CALA) / Standards Council of Canada (SCC) accredited laboratories for both bacterial and chemical analysis.

In 2025, a total of 477 microbiological samples were collected from raw, treated and distribution system water, and were submitted to the laboratory for E. Coli, total coliforms and heterotrophic plate count (HPC) analysis. There were no reportable incidents of adverse microbiological test results in 2025. For more information, please see the Annual Report which is included as Appendix B.

Annual samples are collected and submitted to the laboratory for inorganics (metals) and organics analysis, which include herbicides, pesticides and volatile organic compounds. Quarterly sampling and laboratory analysis is also completed for trihalomethanes and haloacetic acids (disinfection by-products), nitrates and nitrites.

Seasonal samples are collected and submitted to the laboratory for total microcystin analysis from June through to the end of October, as part of the Harmful Algal Bloom (HAB) Monitoring and Sampling Program. The purpose of the HAB program is to keep drinking water safe from potential impacts of aquatic algal bacteria overgrowth (i.e. cyanobacteria) which can produce toxins (i.e. cyanotoxins) in the surrounding water when the algal cells are damaged or die. These toxins, which include microcystins, can be harmful to people. A total of 24 raw and 24 treated water samples were collected and submitted to the laboratory for total microcystin analysis. There was one detectable result in the raw water samples, however there were no detectable results in the treated water. For more information, please see the Annual Report which is included as Appendix B.

In addition, the WTP operator samples the raw, in-process and treated water six times per day and carries out an array of physical and chemical analysis for operational control.

As required by regulation, the EAPWSS also prepares an Annual Report which includes a summary of water quality test results and a maintenance report. The 2025 Annual Report can be found in Appendix B.

Research and Partnerships

The EAPWSS acknowledges the importance of scientific research on water quality and the effects on human health. The EAPWSS has partnered with the Natural Sciences and Engineering Research Council (NSERC) Chair in Drinking Water Research at the University of Waterloo and the University of Toronto to pursue research opportunities, as well as Western University. The EAPWSS is a member of the Water Research Foundation (WRF). In addition, the EAPWSS continues to evaluate and conduct specific research on the efficacy of the existing treatment processes, optimizing and improving treatment systems, and evaluating the potential and need of more advanced treatment alternatives.

Residuals Management Facility (RMF) Compliance

The Municipal Drinking Water Licence (MDWL) for the EAPWSS requires that non-compliant discharges of total chlorine residual (TCR) and total suspended solids (TSS) to the natural environment must be reported. This annual report (Appendix B) includes a report on the date and time of any non-compliant discharges, the duration, maximum total chlorine residual value, volume of non-compliant discharge, reason, and corrective action taken.

In 2025, there were no incidents of non-compliant discharges with the monthly average concentration and maximum concentrations for TCR and TSS being met (refer to Appendix B).

Ministry Inspection

The Ontario Ministry of the Environment, Conservation and Parks (MECP) conducts an inspection of the EAPWSS annually. A MECP inspection took place on December 4, 2025. The final inspection report was issued on March 4, 2026. There were no non-compliance or recommendations identified in the inspection report. The final inspection rating received for the 2025-2026 reporting year was 100.00%.

Reports to Regulators

In 2025, there were three reports to regulators for issues that occurred at the EAPWSS.

The first report was made to the MECP on May 12, 2025 for failing to submit microbiological samples after maintenance and disinfection was completed on a pump,

in accordance with MDWL requirement Schedule B Condition 2.0. Additional training was provided to staff as a preventative measure.

The second report was made to the MECP and Health Units regarding a microcystin detectable result in the raw water. These notifications were provided in accordance with the EAPWSS MDWL Schedule C Condition 6.0 Harmful Algal Bloom Monitoring Plan.

The final report was an AWQI (Reference #170559) that occurred on October 27, 2025, related to elevated fluoride in the WTP, in accordance with requirements of O. Reg. 170/03 Schedule 16-3. During a high lift pump change, an operational issue occurred which resulted in a fluoride spike and elevated fluoride in the pump well. A grab sample confirmed a fluoride residual of 1.88 mg/L which was reported as an AWQI. The WTP was shut down, and the system was flushed to remove the high fluoride residual from the distribution system. Once flushing was completed, the WTP was returned to normal service. The operating authority completed a Corrective Action Form (CAF) to review the incident. The fluoride dosing control program on the Supervisor Control and Data Acquisition (SCADA) has been adjusted as a preventative measure.



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Appendix A: 2025 Flow Summary

1. Raw Water Intake – Daily Flow (m³/Day)

Day	January (m ³ /day)	February (m ³ /day)	March (m ³ /day)	April (m ³ /day)	May (m ³ /day)	June (m ³ /day)	July (m ³ /day)	August (m ³ /day)	September (m ³ /day)	October (m ³ /day)	November (m ³ /day)	December (m ³ /day)
1	41,612	44,268	45,900	56,520	42,928	51,112	49,020	49,800	52,932	54,332	45,352	56,912
2	46,792	47,264	45,620	47,324	49,252	42,732	52,944	54,940	51,600	50,812	54,948	39,728
3	42,780	44,504	49,480	46,296	44,616	54,884	54,860	45,288	54,552	55,028	45,728	47,840
4	44,112	55,364	16,532	48,544	47,224	49,936	54,600	43,388	46,604	50,996	55,756	39,564
5	44,320	34,020	38,736	44,356	51,528	49,732	47,364	34,332	42,956	50,844	45,892	44,360
6	46,272	47,100	48,224	45,148	39,100	53,604	56,092	56,532	61,744	54,384	48,464	39,964
7	47,948	46,172	44,584	46,596	52,144	46,180	54,312	50,240	50,124	49,440	47,348	43,192
8	38,456	54,164	38,892	45,656	36,140	55,544	59,508	57,176	54,080	52,356	46,456	41,556
9	36,520	42,656	51,592	47,200	52,504	50,764	52,188	54,300	43,156	50,420	53,851	49,280
10	37,748	46,376	52,020	41,904	51,464	44,568	46,256	54,984	47,452	48,196	40,744	42,820
11	49,592	51,968	49,036	45,800	40,416	33,828	52,564	40,764	55,476	51,704	50,780	41,364
12	44,388	45,456	49,752	44,276	40,536	49,880	50,652	57,140	47,632	47,876	47,580	41,108
13	49,548	45,108	25,008	50,928	47,136	50,216	50,616	56,776	41,972	50,936	49,928	40,072
14	46,936	34,684	47,472	44,932	48,620	54,400	48,072	48,576	61,792	53,356	52,224	42,492
15	43,156	32,192	47,172	52,828	60,628	49,896	21,220	69,772	61,840	55,484	47,692	41,236
16	49,632	33,888	42,976	44,680	57,884	58,984	48,180	47,668	51,368	53,076	41,336	46,040
17	49,724	52,308	45,608	52,096	46,484	49,496	56,352	54,504	38,140	45,620	53,456	41,204
18	42,580	46,484	46,704	50,552	47,188	57,540	47,920	50,284	72,268	37,128	46,232	46,680
19	50,024	33,632	49,268	45,684	50,392	40,232	56,384	48,664	46,104	42,092	46,992	40,488
20	43,076	50,512	49,248	44,832	43,680	51,140	46,028	46,340	54,248	53,224	46,948	45,548
21	47,284	48,928	45,988	47,128	47,428	51,648	57,072	58,400	51,516	46,996	49,096	42,600
22	44,256	47,888	45,496	45,212	45,280	49,580	51,440	57,452	49,976	50,804	55,360	48,840
23	52,156	52,172	48,500	52,364	49,744	39,744	59,536	49,380	47,672	48,332	46,508	42,928
24	47,140	46,748	41,948	40,424	39,580	53,240	42,500	44,320	51,208	51,384	46,384	44,876
25	43,800	31,300	52,336	50,008	52,632	60,368	55,840	55,180	51,556	47,104	46,604	43,452
26	48,100	45,676	44,360	46,780	49,872	48,960	47,056	52,192	54,992	47,068	52,904	50,620
27	53,936	52,004	46,048	46,448	50,748	52,016	52,988	52,560	53,020	37,168	46,220	44,184
28	47,192	52,576	49,912	51,404	48,628	49,064	49,172	51,096	51,208	39,696	46,968	45,060
29	44,668		46,180	49,584	43,564	54,788	55,620	52,060	49,448	53,612	52,352	42,976
30	43,772		45,636	47,456	54,436	50,188	55,540	52,124	50,452	45,948	41,652	46,660
31	51,352		48,752		46,480		50,148	46,864		51,832		48,088
Monthly Total	1,418,872	1,265,412	1,398,980	1,422,960	1,478,256	1,504,264	1,582,044	1,593,096	1,547,088	1,527,248	1,451,755	1,371,732

Day	January (m ³ /day)	February (m ³ /day)	March (m ³ /day)	April (m ³ /day)	May (m ³ /day)	June (m ³ /day)	July (m ³ /day)	August (m ³ /day)	September (m ³ /day)	October (m ³ /day)	November (m ³ /day)	December (m ³ /day)
Monthly Minimum	36,520	31,300	16,532	40,424	36,140	33,828	21,220	34,332	38,140	37,128	40,744	39,564
Monthly Maximum	53,936	55,364	52,336	56,520	60,628	60,368	59,536	69,772	72,268	55,484	55,756	56,912
Monthly Average	45,770	45,193	45,128	47,432	47,686	50,142	51,034	51,390	51,570	49,266	48,392	44,249

Annual Total (m³)	17,561,707
Annual Minimum (m³/day)	16,532
Annual Maximum (m³/day)	72,268
Annual Average (m³/day)	48,114

Note: (i) As per the water system's current Permit To Take Water, the amount of raw water taken into the Elgin Area Water Treatment Plant cannot exceed 91,000 m³/day.

2. Raw Water Instantaneous Peak Flow (L/s)

Day	January (L/s)	February (L/s)	March (L/s)	April (L/s)	May (L/s)	June (L/s)	July (L/s)	August (L/s)	September (L/s)	October (L/s)	November (L/s)	December (L/s)
1	931	939	953	1,011	953	796	911	811	837	765	880	769
2	958	854	952	983	1,008	975	861	836	846	878	877	940
3	906	890	951	894	926	795	770	856	1,015	808	767	779
4	930	883	872	894	872	849	792	829	925	880	761	760
5	871	951	860	949	953	932	790	874	848	848	864	827
6	872	846	943	919	868	973	800	979	932	881	886	860
7	957	922	960	954	897	807	741	954	854	880	779	880
8	976	883	948	1,033	885	814	800	896	847	943	896	764
9	932	895	826	907	802	820	977	850	882	801	927	1,004
10	883	989	944	866	1,019	971	897	801	941	817	881	897
11	866	908	915	870	868	761	866	817	950	854	802	949
12	853	871	948	953	873	861	944	1,041	918	879	750	825
13	889	855	812	913	876	832	838	815	883	839	746	796
14	875	912	870	960	853	803	767	863	877	857	750	825
15	800	904	826	869	902	867	774	859	878	764	848	853
16	919	903	903	932	912	863	956	858	890	900	825	847
17	860	874	862	926	858	863	935	841	957	944	859	874
18	965	822	936	926	920	818	941	882	873	912	786	837
19	800	866	920	955	916	796	834	884	949	729	802	989
20	800	940	1,007	951	886	745	889	907	880	728	736	797
21	800	910	975	832	878	794	787	881	885	821	880	890
22	760	849	1,045	926	879	758	945	910	888	945	778	894
23	1010	861	864	961	822	740	991	941	900	914	758	895
24	845	851	1,021	967	931	788	893	923	948	870	783	880
25	881	884	873	939	940	813	915	770	881	879	740	846
26	930	909	860	978	944	867	832	766	843	876	770	867
27	890	915	861	898	954	854	831	949	935	815	957	952
28	841	870	883	967	947	867	870	925	939	929	754	853
29	955		800	969	830	839	849	918	947	830	807	801
30	957		918	880	935	886	840	886	934	867	936	862
31	972		861		978		819	941		878		908

Day	January (L/s)	February (L/s)	March (L/s)	April (L/s)	May (L/s)	June (L/s)	July (L/s)	August (L/s)	September (L/s)	October (L/s)	November (L/s)	December (L/s)
Monthly Minimum	627	822	800	832	802	740	741	766	837	728	736	760
Monthly Maximum	952	989	1,045	1,033	1,019	975	991	1,041	1,015	945	957	1,004
Monthly Average	779	891	909	933	906	838	860	879	903	856	819	862

Annual Minimum (L/s)	627
Annual Maximum (L/s)	1,045
Annual Average (L/s)	870

Note: (i) As per the water system's current Permit To Take Water, the amount of raw water taken into the Elgin Area Water Treatment Plant cannot exceed 91,000 m³/day. This converts to 1053 litres/second.

3. Treated Water Daily Flow (m³/Day)

Day	January (m ³ /day)	February (m ³ /day)	March (m ³ /day)	April (m ³ /day)	May (m ³ /day)	June (m ³ /day)	July (m ³ /day)	August (m ³ /day)	September (m ³ /day)	October (m ³ /day)	November (m ³ /day)	December (m ³ /day)
1	43,116	44,704	46,448	56,592	43,364	52,652	48,328	48,328	53,204	55,216	45,536	55,768
2	43,548	45,768	44,396	46,808	47,180	43,720	53,088	54,916	51,260	50,444	54,180	38,864
3	41,692	45,596	48,508	44,700	44,776	52,240	54,180	44,744	53,372	53,000	44,372	45,760
4	43,656	53,704	14,392	47,144	46,944	49,972	52,732	44,208	45,556	51,640	54,576	40,956
5	43,736	32,432	37,940	44,388	51,208	49,976	46,928	33,784	45,284	51,304	44,856	42,748
6	44,412	47,752	46,560	45,008	37,784	53,536	58,300	54,528	59,112	55,544	47,252	40,400
7	45,504	44,252	43,680	44,872	54,420	44,476	51,764	51,628	51,316	46,916	46,172	41,468
8	38,700	51,112	39,324	42,632	33,896	54,764	57,996	56,844	52,360	52,460	47,288	40,020
9	35,768	43,988	50,348	47,636	52,400	51,668	49,224	52,668	43,684	49,236	51,956	48,888
10	36,696	44,684	51,316	42,068	50,836	43,628	45,920	54,072	48,096	48,924	40,152	42,140
11	48,196	50,740	45,864	42,308	41,020	35,932	51,268	42,100	54,236	50,304	49,404	40,876
12	44,464	45,080	49,732	46,076	39,560	47,900	48,832	55,348	45,736	48,248	46,912	41,736
13	48,492	44,280	23,364	48,732	46,764	50,352	50,980	58,176	43,184	48,732	47,932	39,408
14	46,128	31,816	47,836	46,068	46,872	54,572	49,076	46,768	61,564	52,440	51,776	39,592
15	42,852	31,272	43,256	50,188	59,920	48,836	20,704	69,688	62,452	55,832	48,072	41,240
16	44,084	33,928	42,160	44,868	58,616	60,264	47,804	48,484	48,236	52,248	40,028	43,348
17	49,052	50,892	45,056	49,196	47,432	48,684	55,592	54,508	40,104	46,012	52,932	42,264
18	41,272	44,988	46,988	50,820	45,216	55,096	46,896	48,880	71,420	35,836	44,072	44,052
19	50,600	33,548	47,748	46,408	48,944	41,988	56,676	48,644	45,928	40,872	46,060	38,880
20	42,980	50,452	46,220	43,800	45,664	50,548	43,732	46,056	52,728	53,344	46,064	45,300
21	45,296	48,188	45,968	45,040	45,980	51,496	58,332	55,912	52,028	45,968	47,268	41,232
22	44,052	46,476	46,840	43,800	45,184	50,336	49,120	58,132	50,128	47,888	56,900	49,676
23	47,472	51,064	46,116	54,032	49,904	38,388	60,220	50,616	46,472	49,148	44,388	41,340
24	44,840	45,712	41,096	40,792	39,564	51,644	42,908	43,028	52,316	50,000	44,996	43,680
25	45,160	31,312	50,872	47,652	50,992	58,100	54,328	52,808	49,464	45,792	44,676	42,616
26	47,368	45,940	43,500	45,968	47,620	47,196	45,668	52,488	55,212	47,160	53,468	49,492
27	51,088	49,548	46,408	47,720	50,920	52,372	54,936	51,824	52,748	36,972	44,816	42,600
28	47,392	51,300	47,876	50,104	47,320	48,004	47,664	51,720	51,536	37,368	45,656	45,336
29	44,552		44,772	48,708	44,484	54,132	55,440	51,620	49,316	55,356	52,380	41,160
30	44,820		45,656	47,516	53,928	51,084	55,332	52,520	48,644	43,368	42,696	46,084
31	48,840		46,652		44,740		50,316	46,088		50,548		46,796
Monthly Total	1,385,828	1,240,528	1,366,892	1,401,644	1,463,452	1,493,556	1,564,284	1,581,128	1,536,696	1,508,120	1,426,836	1,343,720

Day	January (m ³ /day)	February (m ³ /day)	March (m ³ /day)	April (m ³ /day)	May (m ³ /day)	June (m ³ /day)	July (m ³ /day)	August (m ³ /day)	September (m ³ /day)	October (m ³ /day)	November (m ³ /day)	December (m ³ /day)
Monthly Minimum	35,768	31,272	14,392	40,792	33,896	35,932	20,704	33,784	40,104	35,836	40,028	38,864
Monthly Maximum	51,088	53,704	51,316	56,592	59,920	60,264	60,220	69,688	71,420	55,832	56,900	55,768
Monthly Average	44,704	44,305	44,093	46,721	47,208	49,785	50,461	51,004	51,223	48,649	47,561	43,346

Annual Total (m³)	17,312,684
Annual Minimum (m³/day)	14,392
Annual Maximum (m³/day)	71,420
Annual Average (m³/day)	47,422

Note: (i) As per the water system's current Municipal Drinking Water Licence, the rated capacity of the Water Treatment Plant is 91,000 m³/day. The maximum daily volume of treated water that flows from the treatment plant into the distribution system shall not exceed this value.

4. Treated Water Instantaneous Peak Flow (L/s)

Day	January (L/s)	February (L/s)	March (L/s)	April (L/s)	May (L/s)	June (L/s)	July (L/s)	August (L/s)	September (L/s)	October (L/s)	November (L/s)	December (L/s)
1	627	858	873	870	830	877	633	858	865	866	828	867
2	849	866	836	838	873	841	632	851	865	863	835	872
3	703	854	867	636	865	881	851	826	860	864	845	855
4	644	866	854	885	648	874	626	683	863	857	841	837
5	637	637	479	638	649	868	624	862	858	858	835	658
6	649	947	867	654	873	879	872	864	863	862	849	649
7	866	857	873	644	879	849	871	869	865	853	847	635
8	646	864	460	864	870	868	849	852	644	847	829	620
9	654	616	873	794	872	879	862	859	867	842	847	865
10	668	645	874	663	862	850	767	856	874	836	808	868
11	860	863	836	858	863	873	868	854	858	612	847	868
12	641	826	863	858	880	873	867	863	862	611	847	853
13	858	665	864	863	867	840	860	858	870	608	844	461
14	859	603	832	852	879	876	859	873	867	844	850	864
15	643	477	864	660	882	645	873	870	871	842	849	636
16	641	475	867	860	864	878	861	873	924	851	611	633
17	860	869	873	651	870	883	852	869	853	853	849	647
18	852	860	869	873	869	844	829	870	856	838	847	856
19	855	871	874	838	877	634	865	858	825	853	839	869
20	852	845	643	643	863	864	872	642	852	853	853	869
21	836	867	867	870	851	632	867	867	853	845	847	852
22	628	871	639	867	869	633	869	869	855	846	842	856
23	855	867	864	862	866	874	859	872	873	851	851	630
24	859	868	642	871	462	868	863	833	839	853	840	616
25	849	857	867	860	864	865	845	865	854	847	849	617
26	859	864	844	878	854	624	858	859	854	841	848	869
27	952	869	860	862	863	869	864	854	850	847	849	834
28	870	859	649	666	873	629	859	846	855	855	852	851
29	869		842	643	877	863	874	865	822	852	875	867
30	853		870	865	877	873	871	865	638	814	853	857
31	861		805		859		871	867		846		866

Day	January (L/s)	February (L/s)	March (L/s)	April (L/s)	May (L/s)	June (L/s)	July (L/s)	August (L/s)	September (L/s)	October (L/s)	November (L/s)	December (L/s)
Monthly Minimum	627	475	460	636	462	624	624	642	638	608	611	461
Monthly Maximum	952	947	874	885	882	883	874	873	924	866	875	872
Monthly Average	782	796	806	789	840	820	829	847	845	826	837	774

Annual Minimum (L/s)	460
Annual Maximum (L/s)	952
Annual Average (L/s)	816

Note: (i) As per the water system's current Municipal Drinking Water Licence, the rated capacity of the Water Treatment Plant is 91,000 m³/day. This converts to 1053 litres/second. The maximum daily volume of treated water that flows from the treatment plant into the distribution system shall not exceed this value.

Appendix B: 2025 Annual Report



Annual Drinking Water Report

Drinking-Water Systems Regulation O. Reg. 170/03

Drinking-Water System Number:	210000871
Drinking-Water System Name:	Elgin Area Primary Water Supply System (EAPWSS)
Drinking-Water System Owner:	Elgin Area Primary Water Supply System Joint Board of Management
Drinking-Water System Operating Authority:	Ontario Clean Water Agency (OCWA)
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2025 through December 31, 2025

<p>Complete if your Category is Large Municipal Residential or Small Municipal Residential</p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <p>Lake Huron and Elgin Area Water Supply Systems c/o Regional Water Supply Division 235 North Centre Road, Suite 200 London, ON N5X 4E7 https://huronelginwater.ca/</p> <p>Elgin Area Primary Water Supply System 43665 Dexter Line, Union, ON N0L 2L0</p>	<p>Complete for all other Categories.</p> <p>Number of Designated Facilities served: N/A</p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Number of Interested Authorities you report to: N/A</p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input type="checkbox"/></p>
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Annual Drinking Water Report
Drinking-Water Systems Regulation O. Reg. 170/03

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Systems that receive their drinking water directly from the EAPWSS:

Drinking Water System Name	Drinking Water System Number
City of London Distribution System	260004917
St. Thomas Area Secondary Water Supply System	260078897
Aylmer Area Secondary Water Supply System	260004722
Port Burwell Area Secondary Water Supply System	260004735
Central Elgin Distribution System	260004761
St. Thomas Distribution System	260002187

Systems that receive their drinking water indirectly from the EAPWSS:

Drinking Water System Name	Drinking Water System Number
Aylmer Distribution System	260002136
Malahide Distribution System	260004774
Dutton Dunwich Distribution System	220002967
Bayham Distribution System	260004748
Southwold Distribution System	210001362

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes No

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method _____



Annual Drinking Water Report
Drinking-Water Systems Regulation O. Reg. 170/03

Describe your Drinking-Water System

The Elgin Area Primary Water Supply System employs pre-chlorination, screening, process pH adjustment (utilizing carbon dioxide), powder activated carbon addition (seasonally on an as-required basis), coagulation, flocculation, sedimentation, dual-media filtration, UV disinfection, post-chlorination, final pH adjustment (utilizing sodium hydroxide) and fluoridation to treat raw water obtained from Lake Erie. The Water Treatment Plant (WTP) has a rated capacity of 91 ML/day (MLD). Water is pumped from the plant through the primary transmission main (900mm diameter) to various communities enroute to the Elgin Terminal Reservoir located in northeast St. Thomas. The drinking water system is monitored at various locations throughout the system via a Supervisory Control and Data Acquisition (SCADA) system.

A Residuals Management Facility (RMF) provides equalization, clarification, sediment thickening and dechlorination. Thickened sediment is dewatered by centrifuges and the thickened sediment is sent to the landfill for final disposal. Clarified and dechlorinated liquid streams are discharged back to Lake Erie through the plant drain.

List all water treatment chemicals used over this reporting period

- Carbon Dioxide
- Aluminum Sulphate
- Cationic Polymer
- Powder Activated Carbon (PAC)
- Chlorine Gas
- Hydrofluorosilicic Acid
- Sodium Hydroxide
- Dewatering Polymer (Residuals Management Facility)
- Thickening Polymer (Residuals Management Facility)
- Sodium Bisulphite (Residuals Management Facility)
- Calcium Thiosulfate (Residuals Management Facility)

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment



Annual Drinking Water Report

Drinking-Water Systems Regulation O. Reg. 170/03

Please provide a brief description and a breakdown of monetary expenses incurred:

Capital and Maintenance Projects:

- Overhead Door replacement (High Lift Garage)
- Low Lift Instrumentation Panel replacement
- Roof drain replacements (Chlorine and Flocculation Buildings)
- Treated Water sample line replacement
- Low Lift Pump Discharge Valve replacements
- Low Lift Distribution Well chlorine injection upgrades
- Fruitridge Surge Facility safety upgrades (ladder, roof vent, fall arrest system)
- Technical Standards & Safety Authority (TSSA) generator fuel system upgrades
- Backwash Pump #1 and #2 Discharge Valve Body replacements
- Elgin Terminal Reservoir Cell #1 Access Ladder replacement
- Lab Equipment installation (Benchtop Zeta Potential analyzer)
- Forklift Load Scale installation
- Programmable Logic Controller (PLC) replacements project – including SCADA Control Panel upgrade (High Lift SCP09)
- Particle Counter replacements (Treated and Filtered water)
- RMF Total Chlorine analyzer installation
- Ultraviolet (UV) Disinfection System & Backwash Pump replacement project
- Server room fire suppression system installation
- Security upgrades (WTP fencing, remote station gate automation, intercom, card access and cameras)
- Sodium hydroxide system upgrades (new injection quills)
- IT Asset Replacement Program
- Low Lift Sluice Gate #1 upgrades

Studies and Design:

- Biofilter Research Project electrical upgrades
- Elgin Terminal Reservoir Expansion – Preliminary engineering
- Elgin Terminal Reservoir Cell #1 & #2 Condition Assessment
- Elgin-Middlesex Pump Station (EMPS) Asset Management Plan Update
- Master Water Plan Update
- PAC Dosing Strategy Optimization
- RMF Tank Mixing Study



Annual Drinking Water Report
Drinking-Water Systems Regulation O. Reg. 170/03

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Report Date	Parameter	Corrective Action	Corrective Action Date
October 27, 2025	Chemical - Fluoride	Adverse Water Quality Incident (AWQI) reported (ref# 170559) for a treated water fluoride grab sample result over 1.50 mg/L on October 27, 2025. During a routine high lift pump change, there was an initial fluoride spike over 1.50 mg/L interlocking the high lift pumps. When the high lift pumps were restarted, a second fluoride spike occurred. The EAPWSS has regulatory relief under the Municipal Drinking Water Licence 048-101 for continuous monitoring of fluoride and reporting adverse condition in which, the continuous monitoring met compliance. However, in response to the spike the operator obtained a grab sample result of 1.88 mg/L fluoride residual. This was reported as the AWQI. The system was flushed, preventing the elevated residual from entering the distribution system and the water treatment plant was returned to normal service.	November 4, 2025

Annual Drinking Water Report

Drinking-Water Systems Regulation O. Reg. 170/03

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

Location	Number of Samples	Range of E. coli Results (CFU/100 mL) (min #)-(max #)	Range of Total Coliform Results (CFU/100 mL) (min #)-(max #)	Range of HPC Results (CFU/100 mL) (min #)-(max #)
Raw Water	104	(0)-(300)	(0)-(12,900)	(<10)-(>2,000)
Treated Water (WTP)	216	(0)-(0)	(0)-(0)	(0)-(1,810)
Distribution (Elgin Terminal Reservoir Valve House)	104	(0)-(0)	(0)-(0)	(<10)-(350)
Distribution (Fruitridge Surge Facility)	53	(0)-(0)	(0)-(0)	(<10)-(550)

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Parameter	Number of Samples	Range of Results (min #)-(max #)
Treated Water Free Chlorine (mg/L)	Continuous Monitoring	(0.09)-(2.23)*
Treated Water Fluoride (mg/L)	Continuous Monitoring	(0.08)-(1.95)**
Filter #1 - Filtered Water Turbidity (NTU)	Continuous Monitoring	(0.022)-(0.418)
Filter #2 - Filtered Water Turbidity (NTU)	Continuous Monitoring	(0.024)-(0.422)
Filter #3 - Filtered Water Turbidity (NTU)	Continuous Monitoring	(0.016)-(0.396)
Filter #4 - Filtered Water Turbidity (NTU)	Continuous Monitoring	(0.012)-(0.357)
Raw Water Turbidity (NTU)	Continuous Monitoring	(0)-(1,000)
Elgin Terminal Reservoir Inlet Free Chlorine (mg/L)	Continuous Monitoring	(0.60)-(1.48)

Monthly filter performance met for all four filters (<0.3NTU 95% of the readings).

*Treated water free chlorine residual met requirements for primary disinfection.

**There was no Adverse Water Quality Incident (AWQI) reported for continuous monitoring due to regulatory relief in the Municipal Drinking Water Licence 048-101. However, AWQI #170559 was reported on October 27, 2025 for a fluoride grab sample over 1.50 mg/L. Details provided above.



Annual Drinking Water Report

Drinking-Water Systems Regulation O. Reg. 170/03

Summary of Inorganic parameters tested during this reporting period

(*All tests were conducted on treated water leaving the WTP unless otherwise noted)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Arsenic	January 7, 2025 August 5, 2025	0.0003 0.0004	mg/L	NO
Barium	January 7, 2025 August 5, 2025	0.0216 0.0193	mg/L	NO
Boron	January 7, 2025 August 5, 2025	0.017 0.020	mg/L	NO
Cadmium	January 7, 2025 August 5, 2025	0.000006 0.000003	mg/L	NO
Chromium	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Lead (Elgin Terminal Reservoir Valve House)	January 7, 2025 July 2, 2025 October 7, 2025	0.00002 Not Detected Not Detected	mg/L	NO
Mercury	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Selenium	January 7, 2025 August 5, 2025	0.00015 0.00020	mg/L	NO
Uranium	January 7, 2025 August 5, 2025	0.000074 0.000056	mg/L	NO
Sodium	January 7, 2025	8.53	mg/L	NO
Nitrite	January 7, 2025 April 1, 2025 July 2, 2025 October 7, 2025	Not Detected Not Detected Not Detected Not Detected	mg/L	NO
Nitrate	January 7, 2025 April 1, 2025 July 2, 2025 October 7, 2025	0.180 0.162 0.029 0.031	mg/L	NO



Annual Drinking Water Report

Drinking-Water Systems Regulation O. Reg. 170/03

Summary of Organic parameters sampled during this reporting period

(*All tests were conducted on treated water leaving the WTP unless otherwise noted)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Atrazine + N-dealkylated metabolites	January 7, 2025 August 5, 2025	0.00005 0.00002	mg/L	NO
Azinphos-methyl	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Benzene	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Benzo(a)pyrene	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Bromoxynil	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Carbaryl	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Carbofuran	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Carbon Tetrachloride	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Chlorpyrifos	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Diazinon	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Dicamba	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
1,2-Dichlorobenzene	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
1,4-Dichlorobenzene	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
1,2-Dichloroethane	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
1,1-Dichloroethylene (vinylidene chloride)	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO



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Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Dichloromethane	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
2,4-Dichlorophenol	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
2,4-Dichlorophenoxy acetic acid (2,4-D)	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Diclofop-methyl	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Dimethoate	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Diquat	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Diuron	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Glyphosate	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Haloacetic Acids (HAA's) Elgin Terminal Reservoir Valve House	January 7, 2025 April 1, 2025 July 2, 2025 October 7, 2025	Not Detected Not Detected Not Detected 0.0059	mg/L	NO
Haloacetic Acids (HAA's) Elgin Terminal Reservoir Valve House = Running Annual Average	2025	<0.0053	mg/L	NO
Malathion	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
2-Methyl-4-chlorophenoxyacetic acid	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Metolachlor	January 7, 2025 August 5, 2025	0.00001 Not Detected	mg/L	NO
Metribuzin	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Monochlorobenzene	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Paraquat	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO



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Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Pentachlorophenol	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Phorate	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Picloram	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Polychlorinated Biphenyls (PCB)	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Prometryne	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Simazine	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Total Trihalomethanes (THMs) Elgin Terminal Reservoir Valve House	January 7, 2025 April 1, 2025 July 2, 2025 October 7, 2025	0.012 0.010 0.016 0.020	mg/L	NO
(THMs) Elgin Terminal Reservoir = Running Annual Average	2025	0.015	mg/L	NO
Terbufos	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Tetrachloroethylene	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
2,3,4,6-Tetrachlorophenol	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Triallate	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Trichloroethylene	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
2,4,6-Trichlorophenol	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Trifluralin	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO
Vinyl Chloride	January 7, 2025 August 5, 2025	Not Detected Not Detected	mg/L	NO

NOTE: During 2025, no Inorganic or Organic parameter(s) exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.



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Summary of Additional Legislative Sampling during this reporting period

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Microcystin (Raw Water)	May 27, 2025 to December 3, 2025	<0.1 to 0.1*	ug/L	No
Microcystin (Treated Water)	May 27, 2025 to December 3, 2025	All results <0.1	ug/L	No
RMF Total Suspended Solids (Effluent Discharge)	January 1, 2025 to December 31, 2025 (Monthly Average)	4.00 to 7.23	mg/L	No
RMF Total Chlorine Residual (Effluent Discharge)	January 1, 2025 to December 31, 2025 (Monthly Average)	0.00	mg/L	No
UV #1 Dose	January 1, 2025 to December 31, 2025	0.0** to 653.7	mJ/cm ²	No
UV #2 Dose	January 1, 2025 to December 31, 2025	0.0** to 654.3	mJ/cm ²	No
UV #3 Dose	January 1, 2025 to December 31, 2025	0.0** to 654.0	mJ/cm ²	No
UV #4 Dose	January 1, 2025 to December 31, 2025	0.0** to 653.4	mJ/cm ²	No

*Detectable result of microcystin in raw water reported to Ministry of the Environment, Conservation and Parks (MECP) in accordance with Harmful Algal Bloom Plan. Microcystin was non-detectable in the treated water.

** Primary disinfection was achieved for all instances where UV dose dropped below 40 mJ/cm². Refer to 2025 Annual Compliance Report (Schedule 22).